

PROF. DR. CHASE BEISEL

Group Leader

Helmholtz Institute for RNA-based Infection Research (HIRI)

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Education

- 2009 PhD, Chemical Engineering, California Institute of Technology, Pasadena, CA, USA
2004 BSc, Chemical Engineering, Iowa State University, Ames, IA, USA

Positions

- 2018 - present Group Leader, Helmholtz Institute for RNA-based Infection Research (HIRI), Würzburg, Germany
2018 - present Professor (W2), Faculty of Medicine, University of Würzburg, Germany
2017 - 2018 Associate Professor, Department of Chemical and Biomolecular Engineering, North Carolina State University (NCSU), Raleigh, NC, USA
2015 - present Co-founder and scientific advisory board member, Locus Biosciences, Morrisville, NC, USA
2011 - 2017 Assistant Professor, Dept. of Chemical and Biomolecular Engineering, NCSU, Raleigh, NC, USA
2009 - 2011 Postdoctoral fellow, National Institutes of Health, Bethesda, MD, USA

Committee Work

- 2019 Organizer, International Conference on CRISPR Technologies, Würzburg, Germany
2017 Organizer, International Conference on CRISPR Technologies, Raleigh, NC, USA
2016 - 2017 Instructor, Cold Spring Harbor Laboratory Synthetic Biology Summer School, NY, USA
2016 Topical A Conference Chair, AIChE Annual Conference, San Francisco, CA, USA

Awards & Honors

AIChE Program Development Service Award (2018), D.I.C. Wang Young Investigator Award (2018), Camille Dreyfus Teacher-Scholar Award (2017), Bay Area Lyme Foundation Emerging Leader Award (2016), Sigma Xi Faculty Research Award (2016), NCSU Faculty Scholar (2015 - 2016), NSF CAREER Award (2015), Gordon & Betty Moore Foundation Fellow, Life Sciences Research Foundation (2010 - 2011)

Current Boards

Scientific Advisory Board at Locus Biosciences

Selected Publications

- Dugar G, Leenay RT, Eisenbart SK, Bischler T, Aul BU, **Beisel CL**, Sharma CM (2018)
CRISPR RNA-dependent binding and cleavage of endogenous RNAs by the Campylobacter jejuni Cas9
Molecular Cell 69(5): p893-905.e7
- Marshall R, Maxwell CS, Collins SP, Jacobsen T, Luo ML, Begemann MB, Gray BN, January E, Singer A, He Y, **Beisel CL**, Noireaux V (2018)
Rapid and Scalable Characterization of CRISPR Technologies Using an E. coli Cell-Free Transcription-Translation System
Molecular Cell 69(1):146-157
- Leenay RT, Maksimchuk KR, Slotkowski RA, Agrawal RN, Gomaa AA, Briner AE, Barrangou R, **Beisel CL** (2016)
Identifying and Visualizing Functional PAM Diversity across CRISPR-Cas Systems
Molecular Cell 62(1):137-47
- Luo ML, Mullis AS, Leenay RT, **Beisel CL** (2015)
Repurposing endogenous type I CRISPR-Cas systems for programmable gene repression
Nucleic Acids Research 43(1):674-81
- Gomaa AA, Klumpe HE, Luo ML, Selle K, Barrangou R, **Beisel CL** (2014)
Programmable removal of bacterial strains by use of genome-targeting CRISPR-Cas systems
mBio 5(1):e00928-13